

Disclosure

Mark R. Shinn, Ph.D. Serves as a Consultant for *AIMSweb*, which provides CBM assessment materials and organizes and report the information from 3 tiers, including RTI

Mark R. Shinn, Ph.D. Serves as a Consultant for *Vmath*, a remedial mathematics intervention, from *Voyager*

Mark R. Shinn, Ph.D. Serves as a Consultant for Glencoe Publishing for their *Jamestown Reading Navigator (JRN)* product

Much of This Presentation is Based on a Chapter Written for the RTI Answer Book

Shinn, M. R. (2010). Building a scientifically based data system for progress monitoring and universal screening across three tiers including RTI using Curriculum-Based Measurement. In M. R. Shinn & H. M. Walker (Eds.), *Interventions for achievement and behavior problems in a three-tier model, including RTI*. Bethesda, MD: National Association of School Psychologists.

Big Ideas

- Schools Currently Are Unsystematic or Trying to Build Their Data System(s) Around Tests or Practices Used in General Education Classrooms; These Practices are Not Scientifically Based for Screening and Progress Monitoring
- Q Lots of Schools Collect CBM Data For Universal Screening and Progress Monitoring, But Not Many Use the Data Efficiently or in Best Practices
- We Know How to Increase Efficacy and Efficiency of Progress Monitoring and Screening

Downloadable Materials



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- 3. Click on Idaho RTI Conference 2010

(Nearly) Everyone Agrees...

The Big Ideas for Preventing Reading Failure in Grades K-3:

- 1. Increase the quality, consistency, and reach of instruction in every K-3 classroom
- 2. Universal Screening and Timely and Valid Assessments of Reading Growth for Progress Monitoring
- 3. Provide more intensive interventions to "catch up" the struggling readers

Modified from J. Torgeson, www.fcrr.org

Some Particular Recommendations...

- Fuchs, L. S., & Fuchs, D. (1999). Monitoring student progress toward the development of reading competence: A review of three forms of classroom-based assessment. School Psychology Review. 28(4), 659-671.
- Fuchs, L. S., & Fuchs, D. (2004). What is scientifically based research on progress monitoring?
 Washington, DC: National Center on Progress Monitoring, American Institute for Research,
 Office of Special Education Programs.
- Fuchs, L. S., & Fuchs, D. (2008). Best practices in progress monitoring reading and mathematics at the elementary level. In A. Thomas & J. Grimes (Eds.), Best practices in school psychology V (pp. 2147-2164). Bethesda, MD: National Association of School Psychologists.
- Shinn, M. R. (2008). Best practices in Curriculum-Based Measurement and its use in a Problem-Solving model. In A. Thomas & J. Grimes (Eds.), *Best practices in school psychology V* (pp. 243-262). Bethesda, MD: National Association of School Psychologists.
- Shinn, M. R. (2010). Building a scientifically based data system for progress monitoring and universal screening across three tiers including RTI using Curriculum-Based Measurement. In M. R. Shinn & H. M. Walker (Eds.), *Interventions for achievement and behavior problems in a three-tier model, including RTI*. Bethesda, MD: National Association of School Psychologists.

In Theory, Any Achievement Test Can Be Used for Progress

Presuming It Identifies the Sensitive to

Improvement in Student Achievement In a

Reasonable Period of Time to Be Used

Formatively

In Theory, Any Achievement Test Can Be Used for Universal

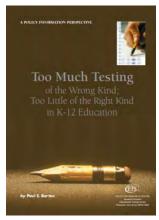
Presuming It Identifies the "Right Kids"--

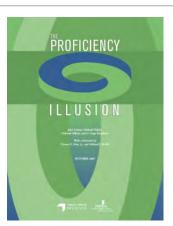
Those Who Need More Intensive Intervention

Presuming It Identifies the "Right Number" of Kids--

Aligned with the Availability of Resources

A Couple of Excellent Reads





Barton, P. E. (1999). Too much testing of the wrong kind; Too little of the right kind in K-12 education. Princeton NJ: Educational Testing Service, Research Division.

Cronin, J., Dahlin, M., Adkins, D., & Kingsbury, G. G. (2008). The proficiency illusion. Washington, DC: Thomas B. Fordham Institute, Northwest Evaluation Association.

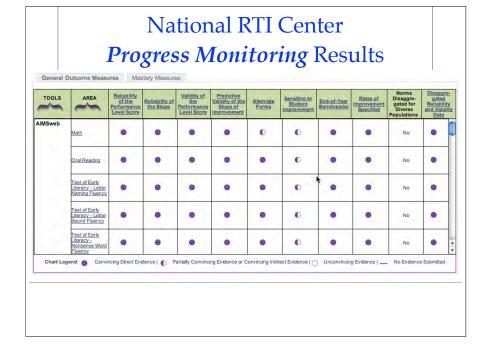
I Say This Because... Note: This figure compares reading test cut scores ("proficiency passing scores") as per NWEA norm. Idaho's percentiles are compared with the median cut scores of all 26 state Note: Idaho's math test cut scores are shown as percentiles of the NWEA norm and compared with the median cut scores of all 26 states reviewed in this study. Idaho's cut scores are consistently within

Range from 32nd Percentile (Grade 4) to 37th Percentile (Grade 7)

Range from 30th Percentile (Grade 47th Percentile (Grade 8)







| Curriculum | Sancting | Common | Comm

Most Tools (6 of 9) are Members of the CBM "Family

AIMSweb	СВМ
Reading CBM (R-CBM)	СВМ
DIBELS	СВМ
Monitoring Basic Skills Progress	СВМ
Mclass Math	?
Scholastic	NO
STAR	NO
STEEP	СВМ
Yearly Progress Pro (YPP)	СВМ

National RTI Center Minimum Criteria

(1) Can you provide *direct* evidence* on the effects of using your tool?

*Direct evidence refers to data from a study that has been conducted based on the tool submitted for evaluation. Studies that use data from the use of another tool, even if it is similar, are considered indirect evidence and will not be considered as adequate evidence for the purposes of this review.

- (2) Do you have the following *classification data for your tool*?
 - a. Specificity
 - b. Sensitivity
 - c. Positive predictive power
 - d. Negative predictive power
 - e. Kappa
- (3) Is your *outcome* variable a *reading* measure?
- (4) Are there at least *three months between the screening* and your *outcome*

CBM Tools

Reading Curriculum-Based Measurement

Reading-Maze

Spelling

Written Expression

Math Computation

Math Application

Early Literacy

Letter Names Letter Sounds

Nonsense Words

Early Nermanary

Early Numeracy

Oral Counting

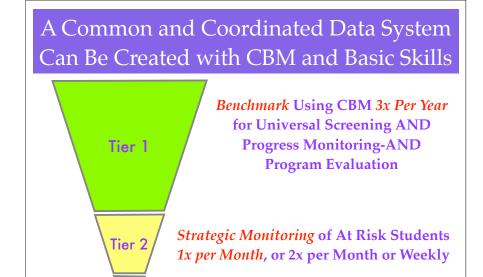
Number Identification

Missing Number

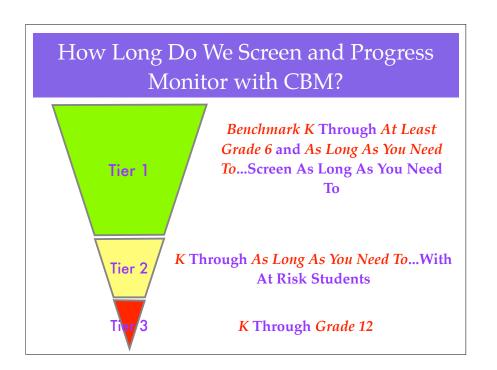
Quantity Discrimination

National RTI Center *Screening*Review Results

TOOLS	AREA	Classification Accuracy	Generalizability	Reliability	Validity	Disaggregated Reliability, Validity, and Classification Data for Diverse Populations	Efficiency				
							Administration Format	Administration & Scoring Time		Norms/ Benchmarks	
AIMSweb	Reading Curriculum Based Measurement (R- CBM)	0	Moderate High	•	•	1	Individual	2 Minutes	Yes	Yes	
Dynamic Indicators of Basic Early	Letter Naming Fluency	0	Moderate Low	•	0		Individual	2 Minutes	Yes	Yes	
Literacy Skills (DIBELS)	Nonsense Word Fluency	0	Moderate Low	•	0	0	Individual	2 Minutes	Yes	Yes	
	Oral Reading Fluency	0	Moderate High		0	0	Individual	2 Minutes	Yes	Yes	
	Phoneme Segmentation Fluency	0	Moderate Low	0	0	0	Individual	2 Minutes	Yes	Yes	
Scholastic	Phonics Inventory - Screener Version	0	Moderate High	•	0		Individual Group	10 Minutes	Computer Scored	No	
	Early Literacy	0	Broad	•	0	•	Individual Group	10 Minutes	Computer Scored	Yes	
	Reading	0	Moderate High	•	•	•	Individual Group	10 Minutes	Computer Scored	Yes	
STEEP	Oral Reading Fluency		Moderate High		0	_	Individual	1 Minute	Yes	Yes	



Frequent Monitoring 1x or 2x per Week





Consequences...

Fluency	General Reading Ability
Goal is to <i>Read Fast</i>	Goal is to <i>Read WELL</i>
Interventions Emphasize Speed	Interventions Emphasize Quality
Interventions are "Slices" or <i>Bandaids</i>	Interventions are Integrated or Bandages

The Intervention Effects of "Reading Faster"?

Implementing **repeated reading** and wide reading interventions **without more formative intervention is not likely to be valuable** (p. 9)

Wexler, J., Vaughn, S., Roberts, G., & Denton, C. A. (2010). The efficacy of repeated reading and wide reading practice for high school students with severe reading disabilities. *Learning Disabilities Research & Practice*, 25, 2-10.

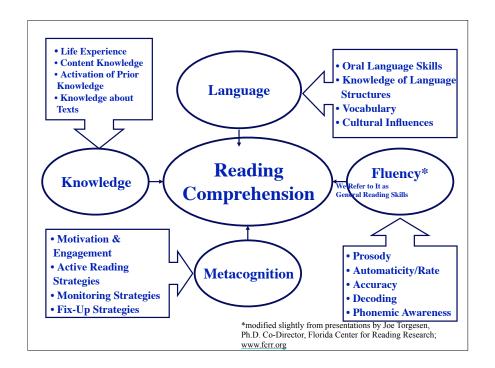
Our results indicate that **repeated reading** does not qualify as an evidence-based or promising practice for students with or at risk for learning disabilities

(p. 276)

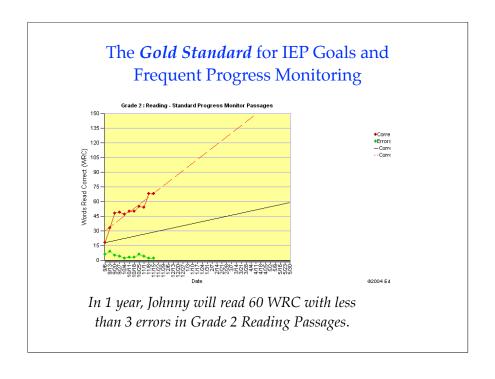
Chard, D. J., Ketterlin-Geller, L. R., Baker, S. K., Doabler, C., & Apichatabutra, C. (2009). Repeated reading interventions for students with learning disabilities: Status of the evidence. Exceptional Children, 75, 263-281.

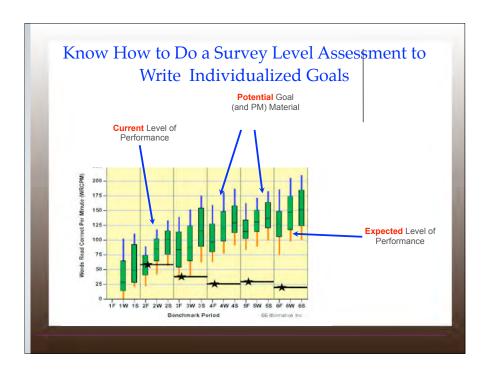
R-CBM is an IRI on Steroids...

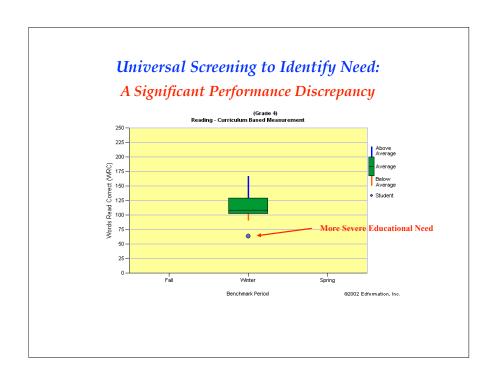
Problem	Solution
<i>Different Ways</i> of Doing an IRI	Standardize the Directions
100 Word Passages Were Challenging for Low Performers, Too Short for Good Readers	Fix the Length of the Test Time, Not the Length of the Test Materials
Accuracy Scores Don't Correlate Nor Are Sensitive to Meaningful Improvement	Find a Better Score That IS Correlated and Sensitive (WRC)





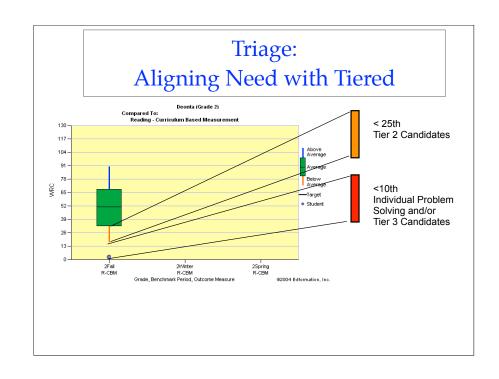


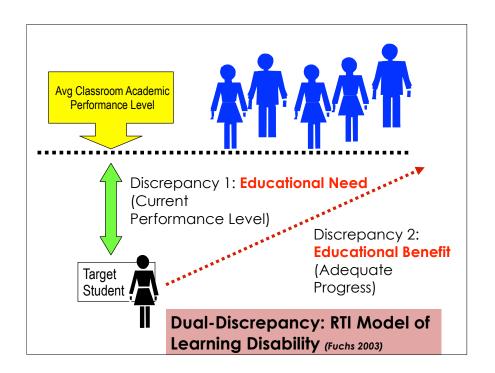


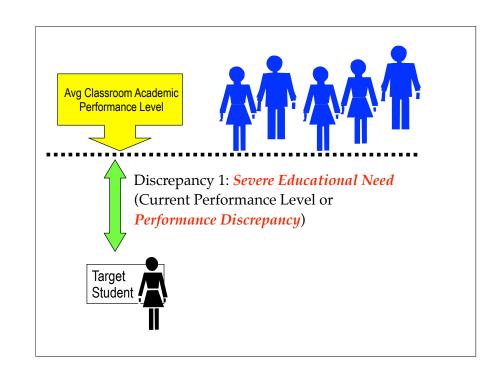


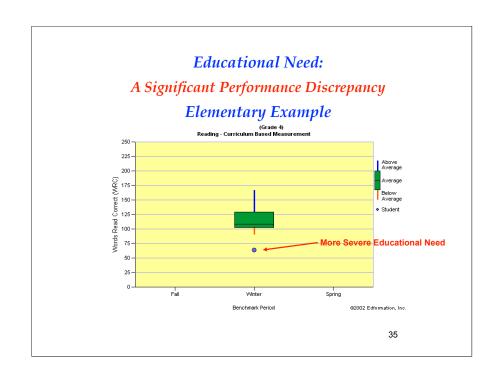
No Failing in Tier 1 Before You Get Tier 2

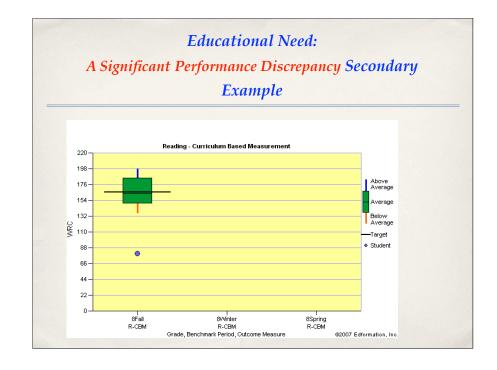
No Failing in Tier 2 Before You Get Tier 3

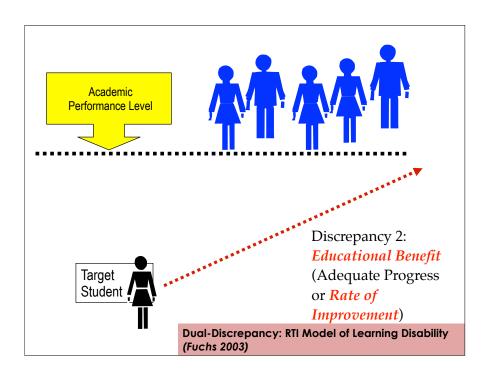










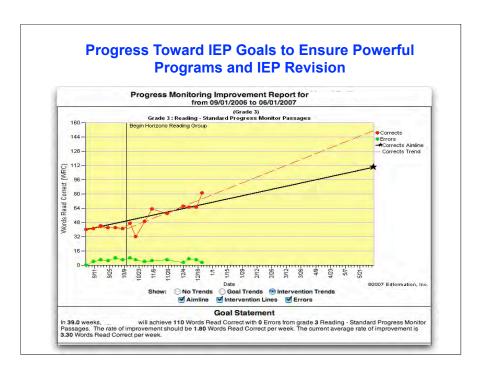


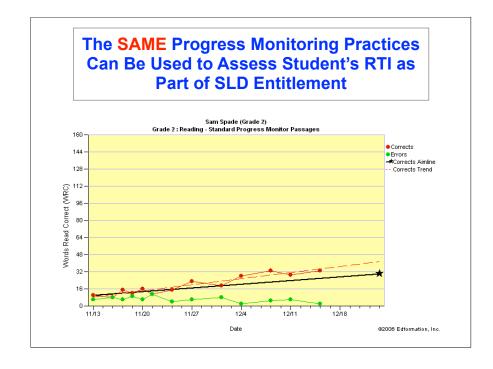
When Push Comes to Shove...Underpinnings of Legal and Regulatory Requirements

(B) ADDITIONAL AUTHORITY- In determining whether a child has a specific learning disability, a local educational agency may use a process which determines if a child *responds* to scientific, research-based intervention as a *part of the evaluation* procedures in paragraphs (2) and (3).

Data-based documentation of repeated assessments of achievement at reasonable intervals, reflecting *formal assessment of student progress* during instruction, which was provided to the child's parents.

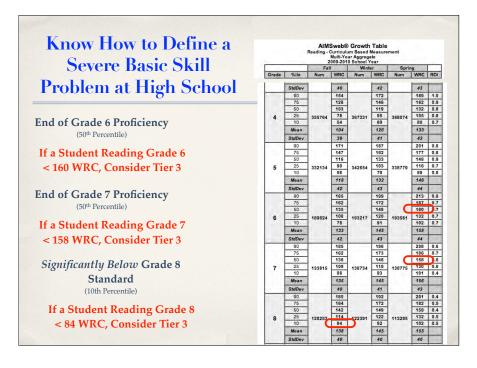
- (3) Use *technically sound instruments* that may assess the relative contribution of cognitive and behavioral factors, in addition to physical or developmental factors.
- (c) Other evaluation procedures. Each public agency must ensure that--
 - (1) Assessments and other evaluation materials used to assess a child under this part--...
 - (iii) Are used for the purposes for which the assessments or measures are valid and reliable;

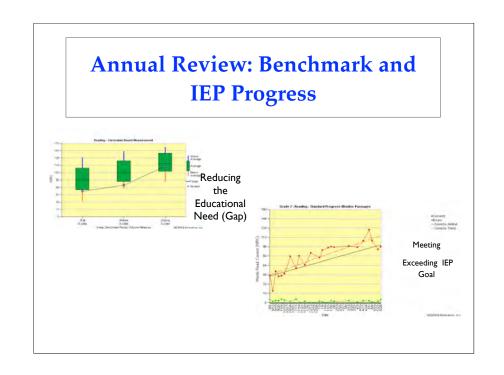


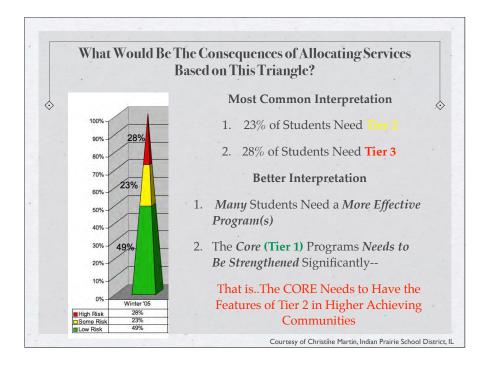


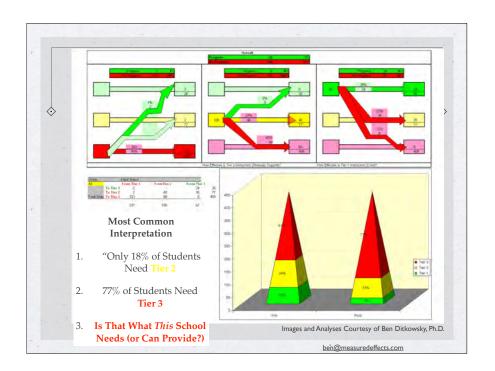
Use Maze 3-Minute Silent Reading Test to Save Some Time Can Be Group CBM-Maze Passage Administered Once upon a time there was a merchant whose wife died, leaving him with three daughters Serves as an The two older daughters were good-looking (but, stand, then) very disagreeable. They cared only for (until, themselves, himself) and Efficient Screener for their appearance; they spent (palace, wicked, most) of the time admining their reflections (in, of, turned) a looking glass Low Cost Progress The third and youngest (once, daughter, gate) was quite different Monitoring with from the other (him, two, beast). She was beautiful - so beautiful that (I, loved, she) was known as Beauty. She was (also, ago, dream) good Older Students and kind. Everyone leved Beauty: (changed, by, except) for her sisters who were jealous (handsome, of, from) her. They hated her

67









	Comi	mon Ea	rly Lite	racy Ass	sessmen	it Scheo	lule		
1	Kindergarten			First Grade		Second Grade			
Fall	Winter	Spring	Fall Winter Spring			Fall Winter Spring			
Initial Sound Fluency (ISF)	ISF	LNF	LNF	PSF	PSF	NWF	ORF	ORF	
Letter Naming Fluency (LNF)	LNF	PSF	PSF	NWF	NWF	ORF	WUF	WUF	
	PSF	NWF	NWF	Oral Reading Fluency (ORF)	ORF	WUF	RTF	RTF	
			Word Use Fluency (WUF)	WUF	WUF	RTF			
				Retell Fluency (RTF)	RTF				

	More	Efficie	nt Early	/ Litera	cy Asses	sment S	Schedu	le	
Kindergarten				First Grade		Second Grade			
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	
Letter Naming Fluency	Letter Sounds	Highly Decodable Passages or Word Lists or NWF	Oral Reading	Oral Reading	Oral Reading	Oral Reading	Oral Reading	Oral Reading	
Letter Sounds	\	→	→	←	←				
	PSF	Letter Sounds	Highly Decodable Passages or Word Lists or NWF	Highly Decodable Passages or Word Lists or NWF	Highly Decodable Passages or Word Lists or NWF				
		<u> </u>	<u> </u>	₩	1				
		PSF	Letter Sounds	Letter Sounds	Letter Sounds				

Big Ideas

- ☑ One of the Features of Multi-Tier, Coordinated Early Intervening Services (aka RTI) is Data-Based Decision Making, Particularly Screening (Universal) and Progress Monitoring
- **Q** Lots of Schools Collect CBM Data But Not Many Use the Data Efficiently or in Best Practices
- We Know How to Increase Efficacy and Efficiency of Progress Monitoring and Screening